dried pupae found within. These may be described as follows:-

Psyllid fupa-Length (abdomen shrunken). 1.2 to 1.4 mm ; width, 1 to 1.2 mm . The wing pads in their naturally half-spread condition give an apparent width, equaling the somewhat shrunken length; they are distinctly longer than width of thorax. Pupa rather oval or rounded in outline, widest in middle of abdomen; finely and somewhat sparsely pubescent on hody, wing-pads and antennae; abdomen long pubescent. Pale yellowish, eyes black; mesonotum, pronotum. and top of head roseate; anterior pair of wing-pads pale rosy yellowinh, hatnd wing-pads paler. Abdomen pale greenish, with an anterior median rosy yellowish area, the terminal portion broadly brownish with a median row of small black spines ending in a spiny tubercle, 13 spines altogether in the row, and one on each side of row on posterior edge of abdomen. Spines are arranged thus: first (anterionly) three in a triangle with aper posteriorly directed; then three more in a similar triangle; then the bunch of six in three pairs with a larger central one, giving the appearance of a spinigerons tubercle. These spines grow longer and stouter towards posterior end of row. On segment anterior to that bearing the first three above mentioned, there seem to be an additional hardly visible three. But in the larger specimen there is in place of these only one
quite conspicuous one of good size. Legs and under side of body pale greenish, sternal and anterior portions yellowish rosy, the legs more or less shaded with same color. Antename greenish at base, more rosy or pale apically.

Described from two specimens, taken from dried galls found Nov. 26. The galls picked May $1+$ diselosed nothing.

The very small, elongate, whitish eggs of this psyllid were found on a cluster of young leaves, May I4. The eggs were quite thickly attached to the under surface of the leaf, adhering by one end, and slanted toward the tip of the leaf. A fewer number also occurred on the upper surface. But a considerable number of the justhatched young were found on upper surface, where they were beginning to bury themselves in the substance of the leaf to form their galls.

The Celtis is probably the var. reticulata.

Two small hymenopterous parasites issned from the dried galls above mentioned. They have been determined by Mr. Wm. H. Ashmead as Ceraphron sp., and Tetrastichus sp.

## PHTHIRIA SULPHUREA LOEW.

BY T. D. A. COCKERELL, N. MEX. AGR. EXP. STA.

Described from the female. About 3 mm . long; yellow, wings hyaline. Head dull chrome yellow, ocelli black, eyes dull purple; proboscis about twice as long as head; face with sparse fine whitish pubescence; antennae chrome yellow; third
joint more than twice as long as the other two combined, about twice as long as broad, pointed, but with a small tooth almost at the end, so as to appear bifurcate or deeply emarginate; without bristles.

Thorax pale delicate greenish-yellow, with
three pale longitudinal bands, evanescent posteriorly before reaching the scutellum. lJalteres yellow, club large, somewhat longer than its pedicel. Abdomen shovel shaped, deep chrome yellow, thinly pubescent above with whitish hairs, which give it a sericeous appearance in certain lights.

Legs pale yellow, tibiae slightly dusky. tarsi blackish at their distal ends, otherwise brownish.

Wings clear, iridescent, veins dark brown, the first longitudinal paler.

Hab. On yellow flowers of Compositae, grounds of Agricultural College, Las Cruces, N. M., Sept. 1894 (Miss 7. Casad).

A $\delta$ was taken at Sin Augustine, N. M., on Howers. Aug. 29, $1 \mathrm{~S}_{9}+(C k l 1 ., 2260)$. It resemb!es the $P$, but the abdomen is narrower and the eyes are contignons.

This species is interesting from its colonr, which is exactly that of the flowers it frequents. It occurs on the same flowers as the similarly colored bee, Perdita luteola Ckll. ined. Prof. C. II. T. Townsend tells me that he remembers finding a similar species in Jichigan, but it was not determined.
[This paper was received as the description of a new Dipteron and its true character learned only in time to change the title. Ed.]

## LIFE HISTORY OF CLISIOCAMPA FRAsILIS STRETCI.

## BI HAKIISON G. DYAR, A. M.. NEW VORK.

C. Fridgilis Stretch.

ISSı - Stretch, Papilio, i, 64.
incurva Hy. Edwards.
188z-11y. Edw., Papilio, ii, 125.
discolorata Neumoegen.
1893 - Neum., can. ent., xxv, 4.
z'dr. Perlutea Neumoegen and Dyar.
1 S93-N. and D., Journ. N. I. ent. soc., i, 31 .
z'er. constrictina Neumoegen and Dyar.
s933-N. and D., Journ. N. Y. ent. soc., i, 30 .
lutescens Neumoegen and Dyar.
1893 - N. and D., Journ. N. Y. ent. soc. i, 3 I.
var. Mus Netumoegen.
s Sy3-Neum. Can. ent., xxv, 4 .
var. Azteca Nemmoegen.
iS93-Neum., Can. ent., xxv, 5.

> Synopsis of Farieties.

Fore wings all pale luteous . perlutea.
Fore wings partly brown . constrictina. Fore wings brown, the lines only pale or slightly spreading . . .fragilis. Fore wings dark gray brown mus. Fore wings darker, blackish . . azteca.

I know of the larva from Nevada (Prof. J. J. Rivers), Montana (Mr. C. A. Wiley'), Colorado (Mr. H. W. Nash) and Wyoming. I feel satinfied from a comparison of bred and captured specimens from these and other localities that there is only this one species from the Rocky Mountains to the Sierras and from Canada (Mr. F. 11. Wolley Dod) to Mexico. C. frogrilis is the western representative of americanc. and is in turn represented in the Pacific Northwest by fluzialis. C. disstria extends thronghout the ranges of americana and fluzialis and also extemds into California (erosa and thoracica are synonyms); but does not enter the range of fragilis to my kmowledge.* The other species (culiformicu, constricta and ambisimilis) appear to be confined to Califorma, and are get imperfectly worked out. The following life history is based on larvae bred from eggs kind!y sent me by Mr. 1I. WV. Nash of Pueblo, Col.

Etrgs. Columnar, flat above, rounded below; upper surface round or elliptical

[^0]
[^0]:    * Since the above was written, I have seen dissfrea from Guadalajara, Mexico.

